Math 122 - #12 Center of Mass

1. Find the center of mass of the triangle with vertices (0,0), (6,0) and (0,3).

2. Find the center of mass of the region bounded by y = x + 2 and $y = x^2 - 4$

3. Find the center of mass of the region bounded by $y=8-x^2$ and $y=\sqrt{x}$ from $0 \le x \le 1$

4. Find the center of mass of the region bounded by $y = \sqrt{4-x^2}$ and y = 0

Answers

- **1.** (2,1)
- **2.** $(\frac{1}{2},0)$
- **3.** (0.478571, 4.169048)
- **4.** $(0, 8/3\pi)$